

ABSTRACT

Process exhaust gas is sampled, and the components of the process exhaust gas are analyzed
5 by a Fourier-transform infrared spectroscope (FT-IR) (26). The analysis result is compared with a reference analysis result obtained from an analysis of process exhaust gas generated in an operation performed under reference process conditions. If
10 the amount of a gas component changes to an amount that is outside a predetermined range set around a reference value obtained from the reference analysis result, a signal indicating a process error is outputted. Instead of the output of the signal
15 indicating a process error, the process conditions can be automatically adjusted.